

A. D. R.

State of California
Air Resources Board

EXECUTIVE ORDER A-20-7
Relating to Certification of New Motor Vehicles

ISUZU MOTORS LIMITED

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That Isuzu Motors Limited exhaust emission control systems for 1977 model-year passenger cars are certified for the engine family described below:

Engine Family: G180Z-B

Engine: 110.8 CID

Transmission: 4-speed manual, 3-speed automatic

Exhaust Emissions Control Systems: Air injection, Exhaust gas
recirculation, Oxidation catalyst

Model: Opel by Isuzu, PF60 (Marketed by General Motors as Opel)

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1977 model vehicles:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
G180Z-B	0.31	4.7	1.0

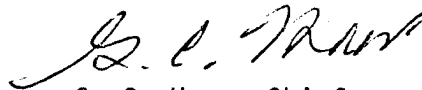
BE IT FURTHER RESOLVED: That this certification is contingent upon Isuzu Motors Limited affixing a permanent catalyst overheat warning label on the driver's sun-visor of all catalyst-equipped vehicles. This label must be approved by the Executive Officer.

BE IT FURTHER RESOLVED: That this certification is also contingent upon Isuzu Motors Limited listing in the owner's manual the operating cautions associated with a catalyst-equipped vehicle. This listing must be approved by the Executive Officer.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 27 day of August, 1976.

A handwritten signature in dark ink, appearing to read "G. C. Hass", is written over the printed name.

G. C. Hass, Chief
Division of Vehicle Emissions Control

Manufacturer Isuzu Motors Limited Executive Order No. A-20-7 Page 1
 Engine Family G1807-B Engine (CID) 110.8 Engine Code _____
 Emission Control System AI, EGR, OC +10%(A/C) Yes ☐ No ☒

Vehicle Models (If Coded see attachment)	Trans	Inertia Weight	Distributor Type C,V Mfgr. Part Number	Fuel System Type 1-2V Mfgr. Part Number	EGR System Part No. Service*	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
Opel by Isuzu	M-4	2500	Nippon Denso LTD 8942065420	Nippon Kikaki LTD 8942142790, 8942093260, 8942136510	5161100010 No Service	See tune up label on page 2.
	A-3			8942093270, 8942136520 89421 42800		

Comments

Date of Issue 08/27/76 . Carb. PN8942136510 & 20 added by FF JPK-082, on 122977.
 Carb. PN8942142790 & 800 added by FF JPK-097, on 022878.

Abbreviations

Distributor

C-Centrifugal Advance

V-Vacuum Advance

R-Vacuum Retard

HEI-High Energy Ignition

EI-Electronic Ignition

Fuel System

EFI, FI

nV-nVenturi Carburetor

VV-Variable Venturi

Exhaust Emission Control System

AI-Air Injection

CAI-Catalyst Air Injection

EFI-Electronic Fuel Injection

EGR-Exhaust Gas Recirculation

EM-Engine Modification

EFE-Early Fuel Evaporation

ESAC-Electronic Spark Advance Control

FI-Fuel Injection

OC-Oxidation Catalyst

PAI-Pulse Air Injection

RC-Reduction Catalyst

TR-Thermal Reactor

TWC-Three Way Catalyst

λ-Air Fuel Ratio Sensor

*Service

I-Inspect, repair/replace as needed


R-Replace

☒ Passenger Cars

☐ Light Duty Trucks

Engine Family G180Z-B

For California

LOW ALTITUDE CERTIFICATION		VEHICLE EMISSION CONTROL INFORMATION ISUZU MOTORS LIMITED																	
<p>ENGINE TUNE-UP CONDITIONS</p> <p>MAKE ALL ADJUSTMENT AT NORMAL OPERATING TEMPERATURE, CHOKE OPEN, AIR CLEANER INSTALLED, DISTRIBUTOR AND IDLE COMPENSATOR VACUUM LINES DISCONNECTED AND PLUGGED, ALL ACCESSORIES OFF, DASHPOT FULLY BOTTOMED IF INSTALLED, AND TRANSMISSION IN NEUTRAL. BOTH MANUAL AND AUTOMATIC. UNPLUG AND RECONNECT BOTH VACUUM LINES WHEN ADJUSTMENTS ARE COMPLETED.</p> <p>SET PARKING BRAKE AND BLOCK WHEEL WHEELS.</p>		<table border="1"> <tr> <th data-bbox="1031 1360 1096 1533">O.C., A.I. AND E.G.A. EXHAUST EMISSION CONTROL</th> <th colspan="2" data-bbox="1031 1648 1096 1753">ENGINE 110.8 CU IN (1.8 LITER) G180Z-B G180ZL-E</th> </tr> <tr> <td data-bbox="1015 1564 1031 1753">OPEL BY ISUZU</td> <td colspan="2" data-bbox="1015 1564 1015 1753">LUV</td> </tr> </table>		O.C., A.I. AND E.G.A. EXHAUST EMISSION CONTROL	ENGINE 110.8 CU IN (1.8 LITER) G180Z-B G180ZL-E		OPEL BY ISUZU	LUV											
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<p>IDLE SPEED AND IDLE MIXTURE SETTING PROCEDURE (IDLE SPEED DROP)</p> <ol style="list-style-type: none"> 1. TURN THE IDLE MIXTURE ADJUST SCREW ALL THE WAY IN AND BACK OUT 3 TURNS. 2. ADJUST THROTTLE ADJUST SCREW TO 900 RPM. 3. ADJUST SETTING OF IDLE MIXTURE ADJUST SCREW TO ACHIEVE THE MAXIMUM SPEED. 4. RESET THROTTLE ADJUST SCREW TO 900 RPM. 5. TURN IDLE MIXTURE ADJUST SCREW COUNTERCLOCKWISE(LEAN) UNTIL ENGINE SPEED IS DOWN TO 850 RPM. 6. RESET IDLE MIXTURE ADJUST SCREW 1/2 TURN COUNTERCLOCKWISE(RICH) FROM ITEM 5 POSITION. 7. RESET THROTTLE ADJUST SCREW TO 900 RPM. 8. IF AIR CONDITIONER IS INSTALLED : TURN A.C. ON MAX. COLD AND HIGH BLOWER. OPEN THE THROTTLE TO APPROX. 1/3 AND ALLOW THE THROTTLE TO CLOSE. (THIS ALLOWS THE SPEED-UP SOLENOID TO REACH FULL TRAVEL.) ADJUST THE SPEED-UP CONTROLLER ADJUSTING SCREW TO SET IDLE AT 900 RPM. 9. ADDITIONAL PROCEDURE IF DASHPOT IS INSTALLED : KEEP THE ENGINE SPEED BETWEEN 2,400 RPM AND 2,800 RPM, AND TURN THE DASHPOT UNTIL THE END OF THE DASHPOT SHAFT CONTACTS THE DASHPOT LEVER, THEN FULLY TIGHTEN THE LOCK NUT. 		<table border="1"> <tr> <td data-bbox="998 1360 1015 1459">IDLE SPEED</td> <td data-bbox="998 1648 1015 1701">900 RPM</td> </tr> <tr> <td data-bbox="982 1360 998 1459">IDLE MIXTURE</td> <td data-bbox="982 1648 998 1753">IDLE SPEED DROP</td> </tr> <tr> <td data-bbox="966 1360 982 1459">IGNITION TIMING</td> <td data-bbox="966 1648 982 1753">6° BTDC AT 900 RPM</td> </tr> <tr> <td data-bbox="950 1360 966 1459">DWEILL ANGLE</td> <td data-bbox="950 1648 966 1701">52°</td> </tr> <tr> <td data-bbox="933 1360 950 1459">BREAKER POINT GAP</td> <td data-bbox="933 1648 950 1701">0.018 IN.</td> </tr> <tr> <td data-bbox="917 1360 933 1459">SPARK PLUG GAP</td> <td data-bbox="917 1648 933 1701">0.030 IN.</td> </tr> <tr> <td data-bbox="901 1360 917 1459">VALVE LASH</td> <td data-bbox="901 1648 917 1701">IN. 0.006 IN.</td> </tr> <tr> <td data-bbox="885 1360 901 1459">(COLD) EXH.</td> <td data-bbox="885 1648 901 1701">0.010 IN.</td> </tr> </table>		IDLE SPEED	900 RPM	IDLE MIXTURE	IDLE SPEED DROP	IGNITION TIMING	6° BTDC AT 900 RPM	DWEILL ANGLE	52°	BREAKER POINT GAP	0.018 IN.	SPARK PLUG GAP	0.030 IN.	VALVE LASH	IN. 0.006 IN.	(COLD) EXH.	0.010 IN.
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<p>IGNITION TIMING SETTING PROCEDURE</p> <ol style="list-style-type: none"> 1. SET IDLE SPEED TO 900 RPM. 2. CONNECT TIMING LIGHT LEAD TO NUMBER 1 CYLINDER. 3. ADJUST IGNITION TIMING WITH TIMING LIGHT AIMED TOWARD TIMING MARK. (ALIGN MARK ON CRANKSHAFT PULLEY TO TIMING MARK) 		<p>CATALYST</p>																	
<p>THIS VEHICLE CONFORMS TO U.S.E.P.A. REGULATIONS APPLICABLE TO 1977 MODEL YEAR NEW MOTOR VEHICLES.</p>		<p>PT. NO. 8942107940</p>																	

SEE SHOP MANUAL FOR ADDITIONAL INFORMATION.